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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/280,618	03/29/1999	MAHDI S. CHAMBERS	CHAMBERS-1	6099	
. 32498 7590 10/31/2007 CAPITOL PATENT & TRADEMARK LAW FIRM, PLLC			EXAMINER		
ATTN: JOHN (	CURTIN	•••• <del>-</del>	MILLS, DO	EXAMINER  MILLS, DONALD L  T UNIT PAPER NUMBER  2616  L DATE DELIVERY MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<del></del>		Application No.	Applicant(s)			
Office Action Summary		09/280,618 CHAMBERS, MAHDI				
		Examiner	Art Unit			
		Donald L. Mills	2616			
Period fo	The MAILING DATE of this communication ap	pears on the cover sheet with the	correspondence address			
	OF REPLY  ORTENED STATUTORY PERIOD FOR REPL	VIS SET TO EVOIDE 2 MONTH	(S) OD THIDTY (30) DAVS			
WHIC - Exte after - If NC - Failu Any	CHEVER IS LONGER, FROM THE MAILING Densions of time may be available under the provisions of 37 CFR 1. or SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	OATE OF THIS COMMUNICATION  136(a). In no event, however, may a reply be ting will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 14 A	August 2007.				
2a)⊠	This action is <b>FINAL</b> 2b) ☐ This	ion is FINAL. 2b) This action is non-final.				
3)	Since this application is in condition for allowa	nnce except for formal matters, pr	osecution as to the merits is			
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposit	tion of Claims					
4)⊠	Claim(s) <u>1-9,12-31 and 33-41</u> is/are pending i	n the application.				
ŕ	4a) Of the above claim(s) is/are withdra	wn from consideration.				
5)	Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>1-9,12-31 and 33-41</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)	Claim(s) are subject to restriction and/o	or election requirement.				
Applicat	ion Papers					
9)[	The specification is objected to by the Examine	er.				
10)	The drawing(s) filed on is/are: a) acc	cepted or b) objected to by the	Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correct		•			
11)	The oath or declaration is objected to by the E	xaminer. Note the attached Office	e Action or form PTO-152.			
Priority (	under 35 U.S.C. § 119	,				
12)	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).			
a)	All b) Some * c) None of:					
	1. Certified copies of the priority document	ts have been received.				
	2. Certified copies of the priority document	ts have been received in Applicat	tion No			
	3. Copies of the certified copies of the prior	ority documents have been receiv	ed in this National Stage			
•	application from the International Burea	* **				
* (	See the attached detailed Office action for a list	t of the certified copies not receive	ed.			
Attachmen 1) ☐ Notic	nt(s) ce of References Cited (PTO-892)	4\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	· /PTO 443)			
	ce of References Cited (P10-892) ce of Draftsperson's Patent Drawing Review (PT0-948)	4) Interview Summary Paper No(s)/Mail D	Date			
	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	5) Notice of Informal F	Patent Application			

### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-8, 12, 13, 15-29, and 33-41 are rejected under 35 U.S.C. 102(e) as being anticipated by Lewis (US 6,442,169 B1).

Regarding claim 1, see e.g., the embodiment shown in figure 9a of Lewis. As such, applicant's DCR 110 is taught as the gateway 508 and NAS bay 902. In particular, applicant's BICR 112 is taught e.g., as CS 510 and applicant's ATM switch 114 (i.e., a second switch as claimed) is taught e.g., as NAS Bay 902. A first switch as claimed e.g., is taught as AT 106 in figure 9A. Hence note that trunk 406 supports both voice and data, see e.g., column 19, lines 44-46. Voice information is sent from the second switch (i.e., NAS bay 902) to voice switch 506 over voice trunks 930, 932 and data (i.e., IP traffic) is sent from the second switch to the ISP 926 over data links 903. The determination of which bay the traffic is sent is made by CS 510(i.e., applicant's BICR); see e.g., column 29, lines 44-51 where the signaling is performed using an open architecture protocol (i.e., applicant's control link between applicant's BICR 112 and ATM switch 114). Thus the control server 510 controls the NAS (i.e., the second switch) and also supports both the first and second types of traffic. Signaling data sent from a first switch, e.g.,

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AT switch 106 is relayed to the control server 510 via the SS7 gateway 512 (i.e., see 'the dotted lines in figure 9a). As seen in the Figure 9A, the NAS is configured to direct traffic the destination end office via the Voice Switch 506 and to ISP 948 via the WAN Protocol. Hence all the claim limitations, comprising the submitted amendments, are met.

Regarding claim 2, numerous ISUP messages are sent over the SS7 network, see e.g., column 28, lines 2.

Regarding claim 3, the control server 510 in step 1030 looks up the called party number in an internal database such that the control server 510 performs the steps of decoding the signal data, determining a called directory number and matching the called directory number with an entry of a predetermined table correlation directory numbers, traffic types, and destination locations, see e.g., column 29, lines 25-50

Regarding claim 4, as the called party number is compared to a database one skilled in the art can infer that at some point in time the database was created in order to make the comparison.

Regarding claims 5-8, see e.g., figure 9c where the internetworking trunks use the ss7 protocol and the data is converted to a second protocol based on whether the traffic type is voice or data. Thus a second protocols either the open architecture protocol as taught by the reference of the actual voice or data links as shown e.g., in figure 9c. As such, for the first protocol, see e.g., columns 28 and 27 with respect to SS7 and also column 29, lines 9-23 with respect to SS7 A links. With respect to the second protocol see e.g., column 21, lines 21-42 and column 28.

Regarding claim 12, see e.g., routers, 904 and 906, which act as remote access servers for the ISP.

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Regarding claim 13, see e.g., table 6 for specific types of control signaling. In addition, note that other standards may also apply, see e.g., column 21, lines 27-51.

Regarding claim 15, see e.g., column 24, lines 5-34 with respect to ATM.

Regarding claim 16, with respect to e.g., Ethernet, DS-1 and DS-3 see e.g., figure 9a with respect to the connections.

Regarding claims 17-18, the control server also supports accounting information; see e.g., column 22, lines 25-43. Information may further be stored in database 516, see e.g., figure 9a.

Regarding claim 19, see e.g., similar reasoning for claim 1.

Regarding claim 20, see e.g., similar reasoning for claims 1 and 7.

Regarding claim 21, the control server is a BICR.

Regarding claim 22, see e.g., similar reasoning for claim 15.

Regarding claim 23, see e.g., similar reasoning for claims 1 and 7.

Regarding claim 24, see e.g., similar reasoning for claim 1.

Regarding claim 25, see e.g., similar reasoning for claim 1.

Regarding claim 26, see e.g., similar reasoning for claim 1.

Regarding claim 27, see e.g., the elements of the open architecture protocol.

Regarding claim 28, see e.g., similar reasoning for claim 3.

Regarding claim 29, see e.g., similar reasoning for claim 6.

Regarding claim 33, see e.g., similar reasoning for claim 12.

Regarding claim 34, see e.g., similar reasoning for claim 13.

Regarding claim 35, see e.g., similar reasoning for claim 15.

Regarding claim 36, see e.g., similar reasoning for claim 16.

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Regarding claim 37, see e.g., similar reasoning for claim 17.

Regarding claim 38, see e.g., similar reasoning for claim 18.

Regarding claims 39-41, see e.g., similar reasoning for claim 1.

# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lewis (US 6,442,169 B1) in view of Burns et al. (US 6,292,463 B1), hereinafter referred to as Burns.

Regarding claim 14 as explained in the rejection statement of claim 1, Lewis discloses all of the claim limitations of claim 1 (parent claim).

Lewis supports ATM but may be silent or deficient to using a switched connection and an SPVC, see e.g., column 24, lines 5-34. Burns teaches the further recited limitation above at e.g., column 1, line 15-31.

The proposed modification of the above-applied reference(s) necessary to arrive at the claimed subject matter would be to modify Lewis by clarifying that SVCs and SPVC implementations in ATM are very well known in the art and since Lewis teaches ATM it would have been obvious to use a PVC, SVC, or SPVC.

As such, examiner notes that it would have been obvious to one skilled in the art prior to applicant's invention to include the above limitation. In particular, the motivation for modifying

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the reference or to combine the reference teachings would be for a switched connection. In particular, Burns cures the above-cited deficiency by providing a motivation found at e.g., column 24, lines 5-34. Second, there would be a reasonable expectation of success since both references teach ATM. Thus the references either in singular or in combination teach the above claim limitation(s).

5. Claims 9, 30, and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lewis (US 6,442,169 B1) in view of Black, "ATM Foundation for Broadband Networks."

As such to claims 9, 30 and 31 as explained in the rejection statements of claims 1 and 23; Lewis discloses all of the claim limitations of claims 1 and 23 (parent claims).

Lewis supports ATM but may be silent or deficient to using Q.931 signaling in the network. In particular, Lewis teaches that the second protocol could be part of DS trunking, which supports basic ISDN interface or Q.931 signaling. However, assuming the above limitation at issue is not clear, examiner also notes the following obviousness rejection as well.

Black teaches the further recited limitation above at e.g., pages 76, 84, and 86. The proposed modification of the above-applied reference(s) necessary to arrive at the claimed subject matter would be to modify Lewis by clarifying that Q.931 signaling is well known in the art, especially for both ATM and integration with SS7 networks.

As such, examiner notes that it would have been obvious to one skilled in the art prior to applicant's invention to include the above limitation. In particular, the motivation for modifying the reference or to combine the reference teachings would be to use a common communications standard where Q.931 is a common communications standard. In particular, Black cures the

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above-cited deficiency by providing a motivation found at pages 84 and 86. Second, there would be a reasonable expectation of success since both references teach ATM. In addition, Black teaches that ISUP, as taught by Lewis, works in conjunction with ISDN Q.931 Thus the references either in singular or in combination teach the above claim limitation(s).

## Response to Arguments

6. Applicant's arguments filed 05 April 2007 have been fully considered but they are not persuasive.

Rejection Under 35 USC 102

On page 16 of the remarks, regarding claims 1, 19, 23, 39, 40, and 41, the Applicant argues Lewis does not disclose the second switch configured to direct traffic data of the first traffic type to a destination end office and the second traffic type to another type of destination network element. More specifically, the Applicant argues Lewis's open architecture platform 402 bypasses the destination end office. The Examiner respectfully disagrees. The Examiner interprets the Open Architecture Platform 402 as logically equivalent to the "destination end office" since it provides equivalent functionality to the "end office." Furthermore, the claim does not set forth and any structural or physical limitations which define the term "end office". Thereby, providing a latitude of possible interpretations, such as, the one stated above. Therefore, Lewis teaches the second switch configured to direct traffic data of the first traffic type to a destination end office and the second traffic type to another type of destination network element.

Rejection Under 35 USC 103

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On page 17 of the remarks, regarding claims 9, 14, 30, and 31, the Applicant argues

Lewis does not disclose, teach, or otherwise make obvious the second switch configured to direct traffic data of the first traffic type to a destination end office and the second traffic type to another type of destination network element. The Examiner respectfully disagrees for the same reasons as stated above.

### Conclusion

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donald L. Mills whose telephone number is 571-272-3094. The examiner can normally be reached on 8:00 AM to 4:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Donald L Mills/

October 26, 2007